



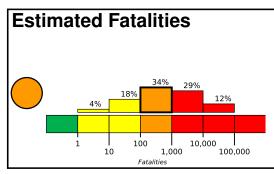


PAGER Version 7

Created: 1 day, 0 hours after earthquake

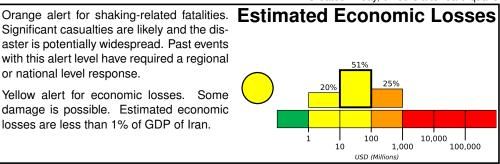
M 5.9, 57km NE of Hashtrud, Iran

Origin Time: 2019-11-07 22:47:05 UTC (Fri 02:17:05 local) Location: 37.8075° N 47.5577° E Depth: 10.0 km



Significant casualties are likely and the disaster is potentially widespread. Past events with this alert level have required a regional or national level response.

Yellow alert for economic losses. Some damage is possible. Estimated economic losses are less than 1% of GDP of Iran.



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	190k*	5,361k*	1,083k	75k	75k	8k	0	0
ESTIMATEI MERCALLI	MODIFIED INTENSITY	I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

46.6 W

IV Maleka

population per 1 sq. km from Landscan 5000

Kaleybar Bostanaba\ Khalkhal Hashtrud Maragheh

47.8°W

Structures

Overall, the population in this region resides in structures that are highly vulnerable to earthquake shaking, though some resistant structures exist. The predominant vulnerable building types are adobe block and low-rise nonductile concrete frame with infill construction.

Historical Earthquakes

		-		
Date		Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1997-02-28	52	6.1	VIII(3k)	1k
1976-11-24	338	7.0	IX(33k)	4k
1990-06-20	171	7.4	IX(83k)	45k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Sarab	<1k
٧	Mianeh	<1k
٧	Nir	<1k
٧	Ahar	94k
٧	Hashtpar	45k
٧	Heris	<1k
IV	Tabriz	1,425k
IV	Ardabil	411k
IV	Zanjan	357k
IV	Astara	15k
IV	Lankaran	240k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

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